

CLAIM AMENDMENTS

Claim 1 (Currently Amended): An antenna-incorporated semiconductor device comprising:

a semiconductor integrated circuit chip having a high-frequency power circuit;

a lead frame having a ground electrode and an antenna element having one end connected to said ground electrode and an other end open;

a wire which connects an input/output electrode of said high-frequency power circuit of said semiconductor integrated circuit chip to a power supply portion of said antenna element; and

an encapsulating resin ~~which~~ encapsulating said semiconductor integrated circuit chip, said lead frame and said wire,

wherein said open end of said antenna element and said ground electrode facing said open end are exposed through an opening portion provided in a part of said encapsulating resin of said antenna-incorporated semiconductor device.

2. (Original): The antenna-incorporated semiconductor device according to claim 1, wherein said antenna element is an inverted-F antenna.

3. (Original): The antenna-incorporated semiconductor device according to claim 1, wherein said input/output electrode of said high-frequency power circuit of said semiconductor integrated circuit chip is connected to said power supply portion of said antenna element via a coupling capacitor.

4. (Currently Amended): An antenna-incorporated semiconductor device comprising:

a semiconductor integrated circuit chip having a high-frequency power circuit;

a lead frame having a ground electrode and an antenna element having one end connected to said ground electrode and an other end open;

a wire which connects an input/output electrode of said high-frequency power circuit of said semiconductor integrated circuit chip to a power supply portion of said antenna element;

an encapsulating resin ~~which~~ encapsulating said semiconductor integrated circuit chip, said lead frame and said wire; and

a coaxial cable connecting connector which is provided in an opening portion provided in a part of said encapsulating resin of said antenna-incorporated semiconductor device and has connection electrodes being said open end of said antenna element and ~~said other~~ an end portion of said ~~encapsulating resin~~ ground electrode.

5. (Original): The antenna-incorporated semiconductor device according to claim 4, wherein said connector is a female type and has a back side covered with a dielectric.

6. (Original): The antenna-incorporated semiconductor device according to claim 4, wherein said connector is a female type and a dielectric guide for positional alignment of a male connector on a coaxial cable side with a back side of said capacitor and burying a gap therebetween.